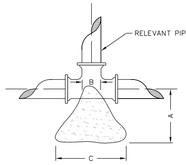
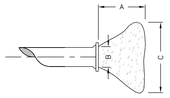
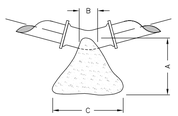
NOTE: THIS DETAIL IS FROM PWSD#2



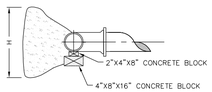
TEES AND TAPPING SLEEVE
NOT TO SCALE



PLUGS
NOT TO SCALE



BENDS
NOT TO SCALE



TYPICAL SECTION
NOT TO SCALE

THRUST BLOCK DIMENSIONS - INCHES											
PIPE DIA.	ALL FTGS.		TEE PLUG TAPPING		90 DEGREE BEND		45 DEGREE BEND		22-1/2 BEND		11-1/4 BEND	
	A	B	C	H	C	H	C	H	C	H	C	H
4	14	4	24	12	26	15	18	12	12	12	12	12
6	16	6	36	18	36	24	30	18	24	12	12	12
8	20	8	36	30	42	36	36	24	24	18	18	12
10	20	10	48	36	66	36	36	36	28	24	18	18
12	24	12	68	36	82	42	52	36	40	24	28	18

NOTE

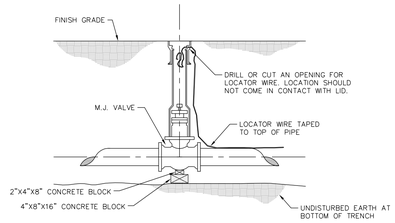
FOR FITTINGS LARGER THAN 12", SPECIAL RESTRAINT DESIGNS ARE REQUIRED.

HORIZONTAL THRUST BLOCKING
DETAIL "C"

Revised 4-2-2013

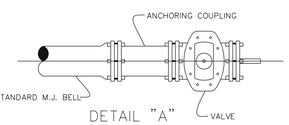
NOTE: THIS DETAIL IS FROM PWSD#2

Buffalo box is an acceptable product to use.
Tyler 562-S and 564-S are acceptable products.

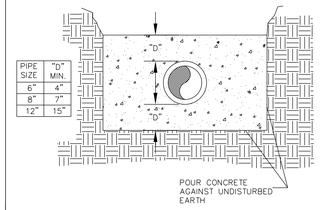


GATE VALVE DETAIL
NOT TO SCALE
DETAIL "D"

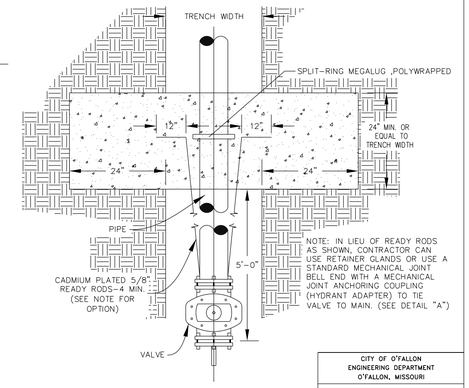
Revised 4-2-2013



DETAIL "A"



PIPE SIZE	"D" MIN.
6"	4"
8"	7"
12"	15"

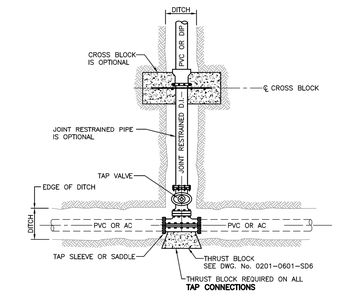


NOTE: IN LIEU OF READY RODS AS SHOWN, CONTRACTOR CAN USE RETAINER GLANDS OR USE A STANDARD MECHANICAL JOINT BELL END WITH A MECHANICAL JOINT ANCHORING COUPLING (HYDRANT ADAPTER) TO TIE VALVE TO MAIN. (SEE DETAIL "A")

CROSS BLOCK DETAIL
NOT TO SCALE

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CROSS BLOCK DETAILS



NOTES:

1. ALL TAP CONNECTIONS MADE ON PVC OR AC PIPE REQUIRE THRUST BLOCKING ON THE TAP SLEEVE/SADDLE PRIOR TO INSTALLING PIPE OUT OF THE TAP VALVE EVEN IF JOINT RESTRAINED PIPE AND/OR CROSS BLOCK IS INSTALLED.
2. SEE DWG. NO. 0201-0601-SD52 FOR PATENT TAP CONNECTION DETAILS.

REVISIONS

MISSOURI AMERICAN WATER STANDARD
CITY:
PVC/AC TAP CONNECTION DETAIL

MISSOURI AMERICAN WATER
ST. LOUIS, MO. 63141

MISSOURI AMERICAN WATER ENGINEERING
727 CRAIG ROAD
ST. LOUIS, MO. 63141

AMERICAN WATER

DRAWN BY SEK
PROJECT MGR
APPROVED

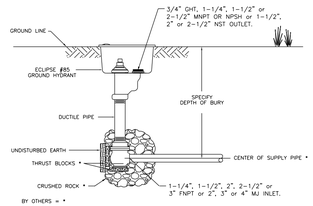
DATE 01-14-13
PROJECT #

USE APPROVED DRAWING ONLY FOR CONSTRUCTION PURPOSES

0201-0601-SD49

0201-0601-SD49

ECLIPSE NO. 85 GROUND HYDRANT



Ground Hydrants shall be self-draining, non-freezing, compression type with a 1-3/6" main opening, and operated with a "T" Handle operating handle. Inlet shall be (2", 2-1/2" & 3" FNPT, or 2", 3" or 4" MJ). Outlet shall be (3/4" GHT or 1", 1-1/4", 1-1/2", 2" or 2-1/2" MNPT or 1-1/2", 2" or 2-1/2" NST).

Hydrants shall have a (ductile iron (STD), galvanised steel, stainless steel, or brass) exterior casing pipe, a galvanized (STD), stainless steel or brass) interior non-turning operating rod with a heavy wall (cast iron (STD), or brass) box and locking lid.

Principal interior operating parts shall be brass, bronze and aluminum and be removable for servicing without excavating the hydrant.

Ground Hydrants shall be set in 4 cubic feet of crushed stone to allow for proper drainage of the hydrant. Recommendations of the AWWA should followed when installing the hydrant.

Hydrants shall be Eclipse No. 85 Eclipse Blow-Off Hydrant as manufactured by John C. Kupferle Company, St. Louis, MO or approved equal.

BLOW-OFF DETAIL

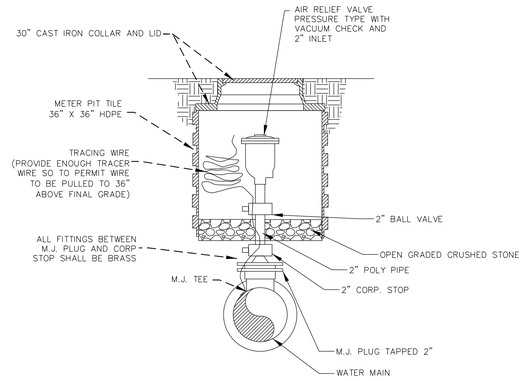
NO	DATE	REVISION

THIS DRAWING IS THE PROPERTY OF THE KUPFERLE FOUNDRY COMPANY. IT IS NOT TO BE USED OR DUPLICATED WITHOUT PERMISSION OT THE OWNER.

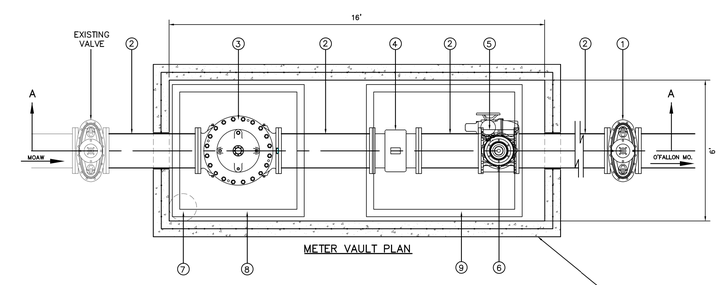
DRAWN G.B
APPROVED
DATE 8-26-09
MAT'L

ECLIPSE
KUPFERLE FOUNDRY COMPANY
2511 NORTH 9TH STREET, ST. LOUIS, MO 63102
314-261-6738 800-231-3990 FAX 314-213-2820
http://www.hydrants.com

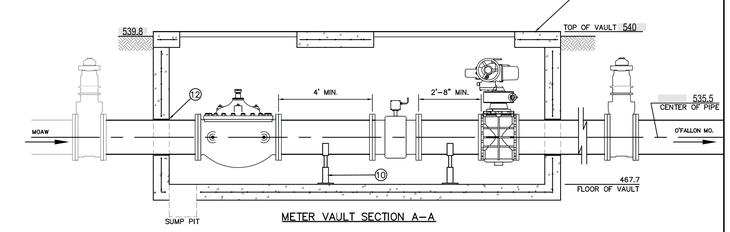
PART NO. #85 BLOW-OFF HYDRANT | SCALE TO FIT



AIR RELIEF ASSEMBLY
NOT TO SCALE



METER VAULT PLAN



METER VAULT SECTION A-A

METER VAULT MATERIAL LIST		
NO.	DESCRIPTION	QTY.
1	16" MUELLER GATE VALVE (MOAW SPEC. SECTION 15151)	1
2	DIA. SPOOL MJ - FLANGE (MOAW SPEC SECTION 15106)	4
3	16" CLA-VALVE	1
4	BADGER M2000 ELECTROMAGNETIC FLOW METER	1
5	DeZURIK PLUG VALVE (SUPPLIED BY OTHERS)	1
6	ROTORK ACTUATOR (SUPPLIED BY OTHERS)	1
7	AMT 523C-95 SUMP PUMP OR EQUAL	1
8	HALLIDAY WS2 5'X5' ACCESS HATCH	1
9	HALLIDAY WS2 6'X5' ACCESS HATCH	1
10	TRUMBULL SADDLESTYLE PIPE SUPPORT OR EQUAL	2
11	PRECAST CONCRETE UTILITY VAULT (ASTM C858)	1
12	PIPE SEAL	2

METER VAULT DETAILS

See Water Spec.at: www.ofallonmo.gov/departments/water_and_sewer/o_fallon_s_water_system.php

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TOWN & COUNTRY, MISSOURI 63017

VOLZ Incorporated
10849 Indian Head Ind'l. Blvd.
St. Louis, Missouri 63132
314.427.5027 314.427.7274
314.890.1250 Fax
www.volzinc.com
Authority #203

STATE OF MISSOURI
7/1/25
TIMOTHY JOHN MEYER
NUMBER E-24665
PROFESSIONAL ENGINEER

TIMOTHY J MEYER
Professional Engineer
MO E-24665

STRAWBERRY FARMS

WATER DETAILS:
SHEET 2

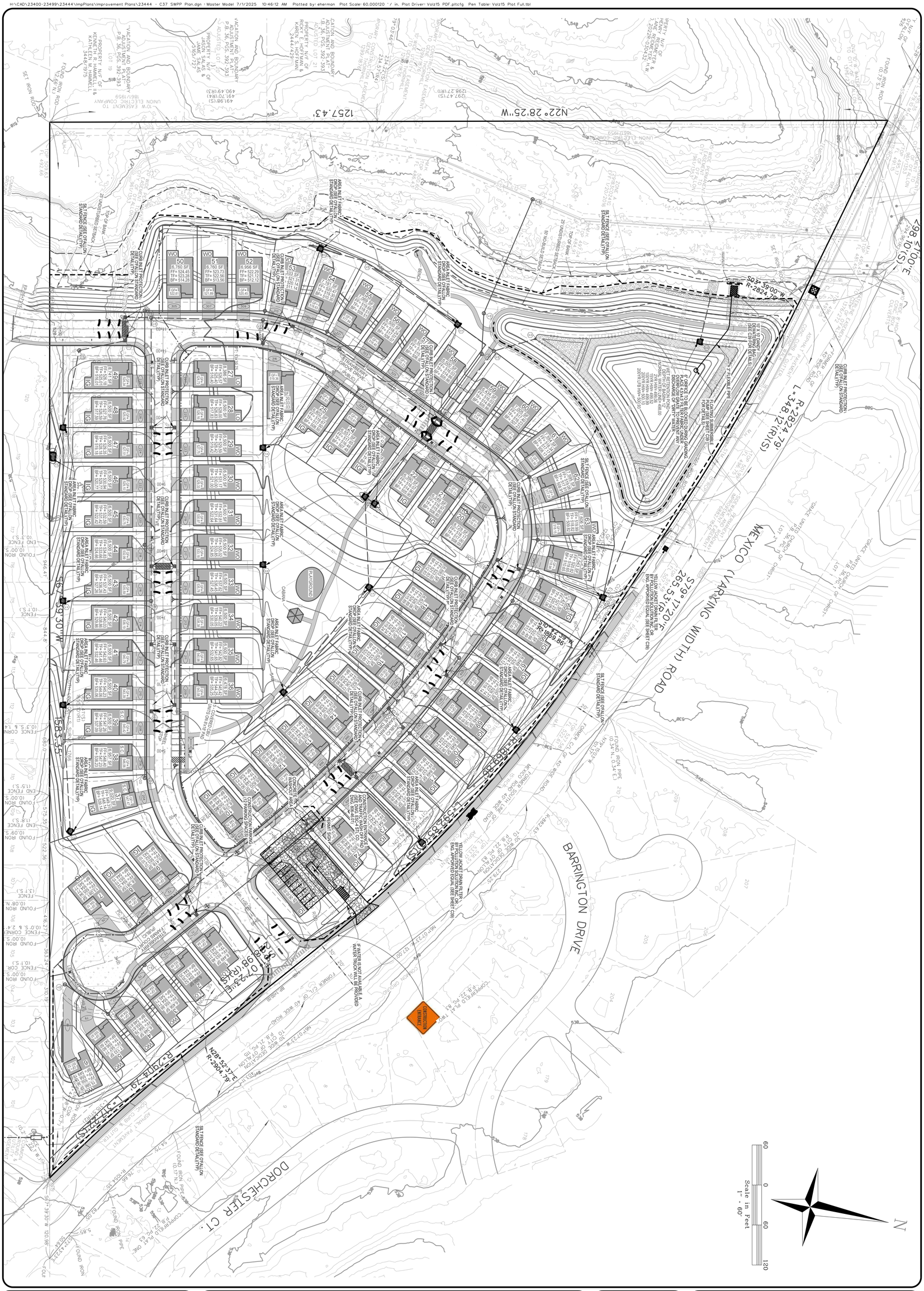
8265 MEXICO ROAD,
O'FALLON, MO 63376

PARCEL ID: 2-0119-1789-00-0092-0.5
CITY OF O'FALLON
PERMIT NO. RSP22-0001
PROJECT #23444

07-01-25

C36

H:\CAD\23400-23499\23444\ImgPlans\Improvement Plans\23444 - C36 Water Details Sheet 2.dgn : Default 7/1/2025 10:45:52 AM Plotted by: ehermon Plot Scale:1.0000 st / in. Plot Driver: Volz15.PDF.pltcfg Pen Table: Volz15.Plot Full.tbl



SWPP PLAN

07-01-25

C37

PARCEL ID: 2-0119-1766-00-0024.5

CITY OF O'FALLON
PERMIT No: RSP25-000001

PROJECT #23444

8265 MEXICO ROAD,
O'FALLON, MO 63376

STRAWBERRY FARMS

TIMOTHY J. MEYER
Professional Engineer
MO E-24665

STATE OF MISSOURI
TIMOTHY JOHN MEYER
NUMBER
E-24665
PROFESSIONAL
ENGINEER

7/1/25

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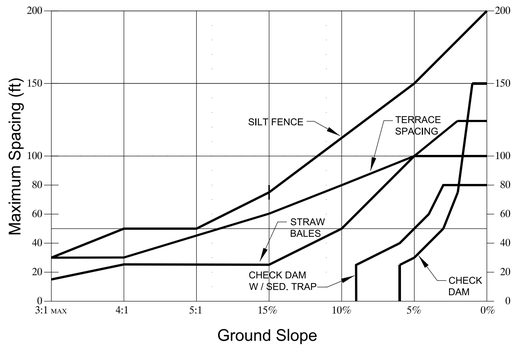
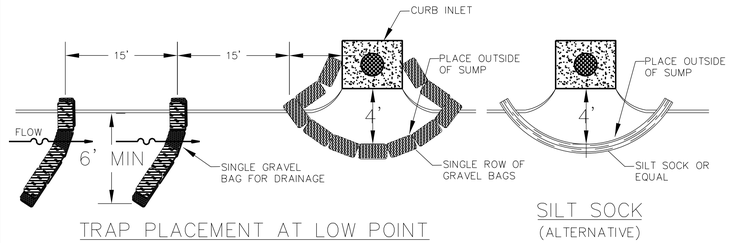


DESIGN CRITERIA

1. SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
2. STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
3. REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
4. TERRACING INCLUDES LOGS, WATTLES & FILTER SOCKS.

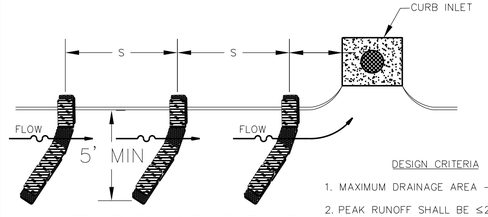
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

SPACING CHART FOR ESC DEVICES



TRAP PLACEMENT AT LOW POINT

SILT SOCK (ALTERNATIVE)



TRAP PLACEMENT AT INTERMEDIATE INLET

SPACING OF TRAPS

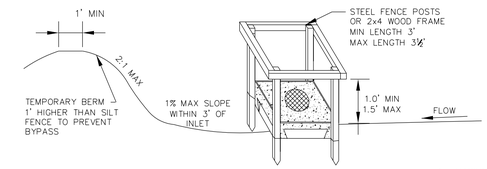
GUTTER SLOPE	S
LOW PT	15'
1%	20'
2%	15'
3% MAX.	10'

DESIGN CRITERIA

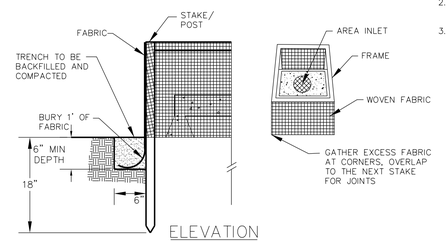
1. MAXIMUM DRAINAGE AREA – 1 ACRE.
2. PEAK RUNOFF SHALL BE ≤2 CFS BASED ON THE 6–MONTH STORM.
3. STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CURB INLET PROTECTION



PERSPECTIVE



ELEVATION

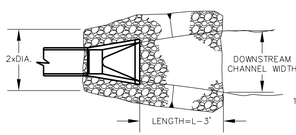
DESIGN CRITERIA

1. MAXIMUM DRAINAGE AREA – 1 ACRE.
2. PEAK RUNOFF SHALL NOT EXCEED 2 CFS BASED ON A 6–MONTH STORM EVENT.
3. OTHER SEDIMENT PROTECTION PRODUCTS MAY BE USED, SUCH AS FiltR FENCE™.

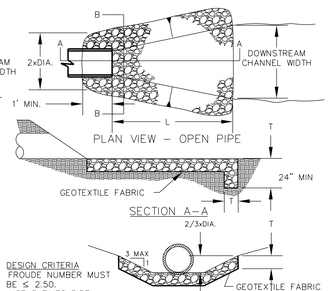
St. Charles County
Erosion & Sediment Controls
Standard Drawings

AREA INLET PROTECTION FABRIC DROP

DATE: **MARCH 2008** | DRAWING **ESC-14**



PLAN VIEW
W/FLARED END SECTION



PLAN VIEW – OPEN PIPE

SECTION A–A

SECTION B–B

RIPRAP SIZE & APRON DIMENSION								
PIPE SIZE	VELOCITY < 5 FPS				VELOCITY < 10 FPS			
	ROCK SIZE		APRON DIM		ROCK SIZE		APRON DIM	
	d_{50}	d_{MAX}	T	L	d_{50}	d_{MAX}	T	L
(inch)	(inch)	(inch)	(inch)	(ft)	(inch)	(inch)	(inch)	(ft)
12	5	9	15	12	5	9	15	16
15	5	9	15	14	5	9	15	18
18–24	5	9	15	16	9	14	24	20
27–30	5	9	15	18	9	14	24	22
36–42	9	14	24	22	12	18	27	26
48–54	9	14	24	26	12	18	27	30
60–66	12	18	27	34	15	24	30	38
72–84	15	24	30	42	15	24	30	46
96	18	27	30	50	18	27	30	54

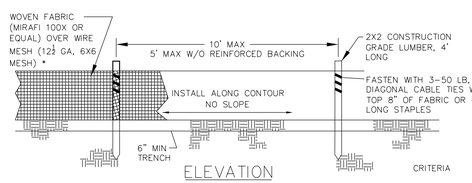
d_{50} – NOMINAL DIAMETER
d_{MAX} – MAXIMUM DIAMETER
T – THICKNESS
L – LENGTH

DESIGN CRITERIA

1. FROUDE NUMBER MUST BE ≤ 2.50.
2. USE 3 TIMES PIPE DIAMETER FOR DOWNSTREAM CHANNEL WIDTH IF THERE IS NO DEFINED CHANNEL.
3. BANK PROTECTION HEIGHT TO BE 2/3 TIMES PIPE DIAMETER.
4. ROCK SLOPES SHALL BE NO STEEPER THAN 3:1.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

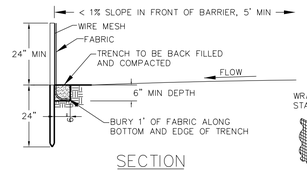
TEMPORARY OUTLET PIPE DISCHARGE PROTECTION



ELEVATION

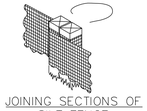
CRITERIA

1. SILT FENCE SHALL BE 24 INCHES HIGH.
2. SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
3. GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
4. WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.



SECTION

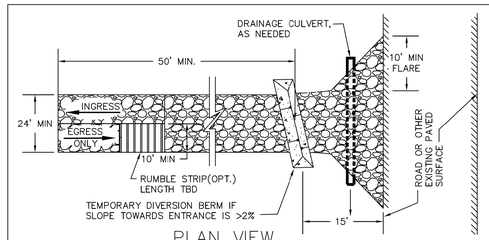
NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.



JOINING SECTIONS OF SILT FENCE

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

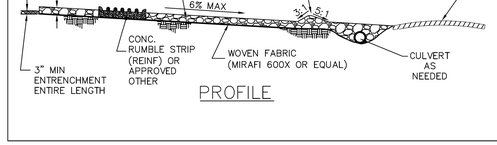
SILT FENCE INSTALLATION SHEET FLOW (ONLY)



PLAN VIEW

NOTE:
A SPECIAL USE PERMIT IS REQ'D FOR THE ENTRANCE.

RUMBLE STRIP
(OPTIONAL)



PROFILE

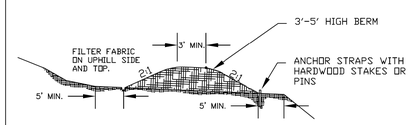
DESIGN NOTES

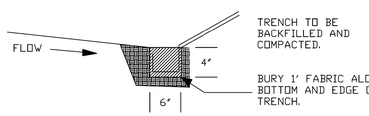
1. DIVERT ALL RUNOFF TO A SEDIMENTATION CONTROL DEVICE.
2. PROVIDE WATER SUPPLY FOR WASHDOWN.

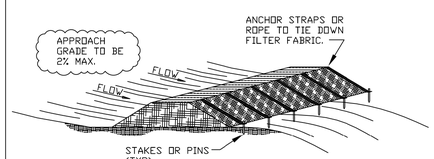
St. Charles County
Erosion & Sediment Controls
Standard Drawings

CONSTRUCTION TRAFFIC WASH-OFF PAD

DATE: **APRIL 2008** | DRAWING **ESC-4**







WOOD CHIP BARRIER DESIGN		
D.A. PER 100' BERM	FILTER FABRIC	BERM HEIGHT
0.5 AC	NO	3'
0.75 AC	YES	3'
1 AC MAX	YES	6

CRITERIA

1. WOOD CHIPS GENERATED FROM ON-SITE CLEARING OPERATIONS CAN BE USED.
2. THIS DEVICE MAY BE USED AS AN ALTERNATIVE FOR SILT FENCE.
3. BARRIER MUST BE AT LEAST 5' FROM A DISTURBED EMBANKMENT (EITHER SIDE).
4. REFER TO TABLE FOR DESIGN DETAILS.

St. Charles County
Erosion & Sediment Controls
Standard Drawings

WOOD CHIP BARRIER INSTALLATION

DATE: **APRIL 2008** | DRAWING **ESC-7**

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424 S. WOODS MILL RD., SUITE 110
TOWN & COUNTRY, MISSOURI 63017

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10849 Indian Head Ind'l. Blvd.
St. Louis, Missouri 63132
314.427.5212 314.427.0279
314.890.1250 Fax
www.volzinc.com
Authority #203

STATE OF MISSOURI
7/1/25
TIMOTHY JOHN MEYER
NUMBER E-24665
PROFESSIONAL ENGINEER

TIMOTHY J MEYER
Professional Engineer
MO E-24665

STRAWBERRY FARMS

SWPP DETAILS: SHEET 1

07-01-25

C38

PARCEL ID: 2-0119-1786-00-002A.5
CITY OF O'FALLON
PERMIT No: BSP24-00001
PROJECT #23444

8265 MEXICO ROAD
O'FALLON, MO 63376

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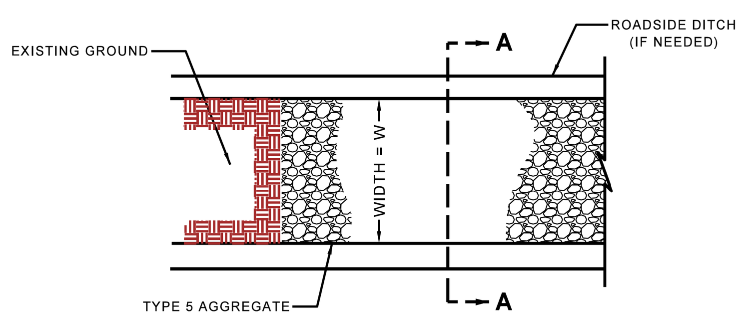
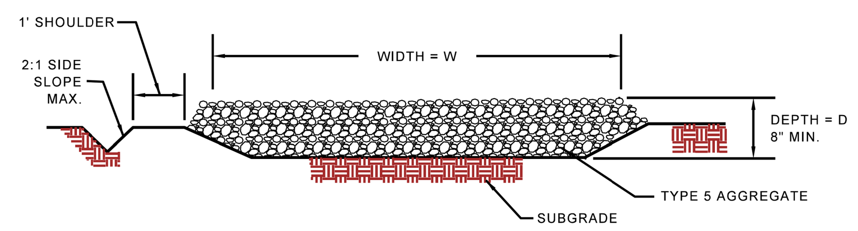
NEW	REVISIONS			
1/15/04	7/1/04	8/2/07	10/10/11	1/1/16



PLAN VIEW



SECTION A-A

GENERAL NOTES

1) SEE PLANS FOR CONSTRUCTION ROAD LOCATION, D AND W DIMENSIONS.
2) MINIMUM WIDTH IS 14 FEET FOR ONE-WAY TRAFFIC AND 24 FEET FOR TWO-WAY TRAFFIC. TWO-WAY TRAFFIC WIDTHS SHALL BE INCREASED A MINIMUM OF 4 FEET FOR TRAILER TRAFFIC. DEPENDING ON THE TYPE OF VEHICLE OR EQUIPMENT, SPEEDS, LOADS, CLIMATIC AND OTHER CONDITIONS UNDER WHICH VEHICLES AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTH MAY BE REQUIRED.
3) ROADWAY SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE.
4) GRADE ROAD AND DITCHES TO PROVIDE POSITIVE DRAINAGE AND PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
5) ASPHALTIC CONCRETE OR PORTLAND CEMENT CONCRETE MAY BE REQUIRED FOR LONG TERM PROJECTS OR UNSTABLE SOILS.

ST. LOUIS COUNTY
DEPARTMENT OF TRANSPORTATION
CREVE COEUR, MISSOURI

TYPICAL BMP DETAIL
CONSTRUCTION ROAD

REVISION DATE: January 1, 2016
DRAWING 806-45.99

YellowJacket Drain Inlet Filter

Finally, a drain inlet filter that is affordable and simple to install and maintain. The yellow webbing secures the filter to the grate and doubles as lifting straps to quickly and easily remove the filter, grate and all, for simple cleaning.
YellowJackets are designed to accommodate rectangular inlets as well as square and round drains.

Quick Look

- Filter Bag — High strength woven geotextile
- Strapping — Weather resistant 2" polypropylene webbing
- Overflow — 4 overflow portals built into each unit
- Dimensions — 4 sizes available to fit most drains (custom sizing available)
- Maintenance — Remove with built-in lifting straps, clean filter and replace

Specifications

PROPERTY	TEST METHOD	DATA METRIC	DATA ENGLISH
Mechanical			
Grab Tensile Strength	ASTM D 4632	1.56 x 1.25kN	350 x 280 lbs
Grab Tensile Elongation	ASTM D 4632	20 x 15%	
Trapezoidal Tear	ASTM D 4533	0.49 x 0.33 kN	110 x 75 lbs
CBR Puncture	ASTM D 6241	4.448 kN	1000 lbs
Endurance			
UV Resistance	ASTM D 4355	90% @ 500 hrs	
Hydraulics/Filtration			
Permittivity	ASTM D 4491	1.5 sec -1	
Water Flow Rate	ASTM D 4491	12,218 l/pm/m²	200 g/pm/ft²
Percent Open Area	CE-02215	20 - 30%	
Apparent Opening Size (AOS)	ASTM D 4751	0.85 mm	20 US Std. Sieve
Physical			
Thickness (Minimum)	ASTM D 5199	0.38 mm	15 mils

Dispose of unit in accordance with applicable Federal, state and local environmental laws and regulations. The user is solely responsible for the compliance with maintenance and disposal laws and regulations. The manufacturer or seller assumes no responsibility for proper or improper maintenance or disposal.

Proudly made in the USA by Pollution Solution, Inc. Phone 800-808-1774 Fax 866-990-1527 www.psiyes.com info@psiyes.com

All products are solid PVC and LEXAN. Sleeved installation for easy relocation. Life expectancy 10+ years.
MyMailBoxMan.com
Ken- 443-244-2511

Compliance Boards

Outside cork opens for additional 48" surface. Track your silt fence, concrete washout, and OSHA requirements with ease.

Storm Water Box and Display

MyMailboxMan.com
Click on Permit Boxes
Contact Info
Ken: 443-244-2511

Easy side access to change notifications. SWPPP Box with combination lock.

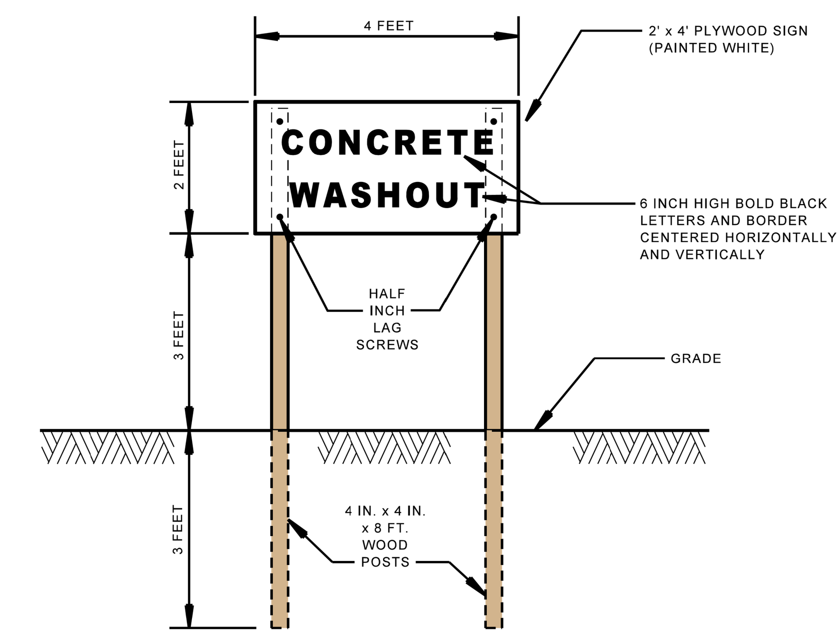
Permit Box with Tube

All products are solid PVC construction and installed in a removable sleeve system. Purchase once and reuse many times.

6" tube for multiple or large plans. Hasps and combo pad locks included.

OR APPROVED EQUAL

NEW	REVISIONS				
4/15/08	10/10/11	1/1/16			



CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT AS APPROVED BY COUNTY)

GENERAL NOTES

1) DO NOT SCALE DRAWING, FOLLOW DIMENSIONS.
2) ACTUAL LAYOUT DETERMINED IN THE FIELD
3) THE "CONCRETE WASHOUT" SIGN SHALL BE INSTALLED WITHIN 30 FEET OF EACH TEMPORARY CONCRETE WASHOUT FACILITY.

ST. LOUIS COUNTY
DEPARTMENT OF TRANSPORTATION
CREVE COEUR, MISSOURI

TYPICAL BMP DETAIL
CONCRETE WASTE MANAGEMENT
(CONCRETE WASHOUT SIGN)

REVISION DATE: January 1, 2016
DRAWING 806-46.03

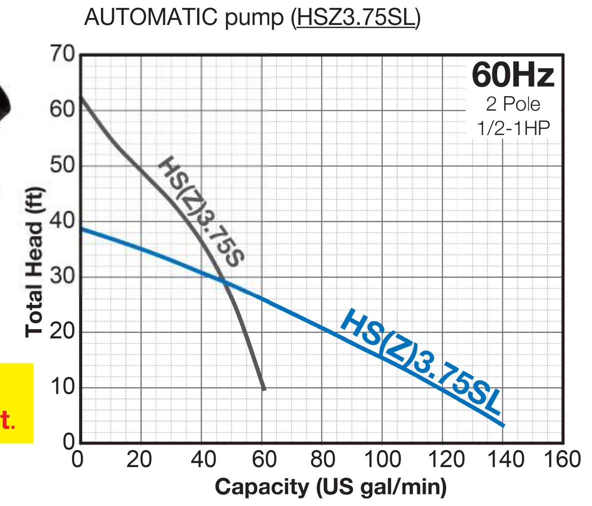
TSURUMI PUMP™

BUILT FOR WORK® SUPERIOR DESIGN & TECHNOLOGY

HIGH-FLOW ELECTRIC SUBMERSIBLE TRASH PUMP HS3.75SL

Tsurumi offers a new high-flow version of the best-selling HS3.75S pump!

- ★ Extension of Tsurumi's best-selling HS series submersible trash pumps
- ★ Designed by modifying the impeller and pump casing of HS3.75S for low head and high flow (suffix "L")
- ★ For applications under 10 feet of static head, this can provide double the flow rate of the HS3.75S
- ★ Still features the same wear resistant materials that offer long-term durability
- ★ Still compact and portable with excellent maintainability
- ★ Available as a MANUAL (HS3.75SL) or AUTOMATIC pump (HSZ3.75SL)



Maximum flow rate of **140 GPM** and maximum total dynamic head of **40 feet**.

Model	Motor Output (HP)	Phase	Discharge Size (inch)	Cable Length (ft)	Dimension (inch) Diameter	Dimension (inch) Height	Pump Starting Water Level (inch)	Shipping Weight (lbs.)
HS3.75SL Manual	1	Single	3	32	12 7/16	16 3/4	3 1/2	50
HSZ3.75SL Automatic	1	Single	3	32	12 7/16	18 11/16*	18 11/16**	50

*Minimum Required Space **Pump Starting Water Level

DANDY DEWATERING BAG ™
PUMPED WATER SEDIMENT CONTROL SYSTEM GUIDE SPECIFICATIONS

PRODUCT:

DANDY DEWATERING BAG™

MANUFACTURER:

Dandy Products Inc.
P.O. Box 1980
Westerville, Ohio 43086
Phone: 800-591-2284
Fax: 740-881-2791
E Mail dlc@dandyproducts.com
Web www.dandyproducts.com

DISTRIBUTOR:

ASP Enterprises
1099 Cassens Industrial Ct.
Fenton, MO 63026
Phone: 636-343-4357
www.aspent.com

1.0 **Description:**

1.1 Work covered under this consists of furnishing, installing, maintaining, and removal of the Dandy Dewatering Bag ™ The purpose is to control sediment discharge in any dewatering or pumped water application.

2.0 **Material:**

2.1 The Dandy Dewatering Bag™ shall be a bag sewn of nonwoven fabric **in the U.S.A.** using a double needle machine and a high strength thread.

2.2 The Dandy Dewatering Bag™ shall have a spout opening large enough to accommodate at least a four (4) inch pump discharge hose with an attached strap to tie unit closed.

2.3 The Dandy Dewatering Bag™ Seams shall be a double stitched "J" type seam with an average wide width strength per ASTM D-4884 of 60lb/in for a 8 oz. fabric manufactured in the U.S.A. with the following characteristics:

PROPERTY	TEST METHOD	UNITS	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.9 (205)
Grab Tensile Elongation	ASTM D 4632	%	50
Puncture Strength	ASTM D 4833	kN (lbs)	0.58 (130)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2618 (380)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.36 (80)
% Open Area	COE - 22125-86	%	N/A
Apparent Opening Size	ASTM D 4751	mm (US Std Sieve)	.0180 (80)

Permittivity	ASTM D 4491	sec^{1}	1.2
Permeability	ASTM 4491	cm/sec	0.21
Water Flow Rate	ASTM 4491	$l/min/m^2$ $(gal/min/ft^2)$	3866 (95)
Ultraviolet Resistance	ASTM D 4355	%	70
Color			Black

3.0 **Installation:**

3.1 Lifting straps (not included) should be placed under the unit to facilitate removal after use.

3.2 Unfold Dandy Dewatering Bag™ on a stabilized area over dense vegetation, straw, or gravel (if an increased drainage surface is needed) or as detailed in plans.

3.3 Insert discharge hose from pump into Dandy Dewatering Bag™ a minimum of six (6) inches and tightly secure with attached strap to prevent water from flowing out of the unit without being filtered.

4.0 **Maintenance:**

4.1 Replace the unit when ½ full of sediment or when sediment has reduced the flow rate of the pump discharge to an impractical rate.

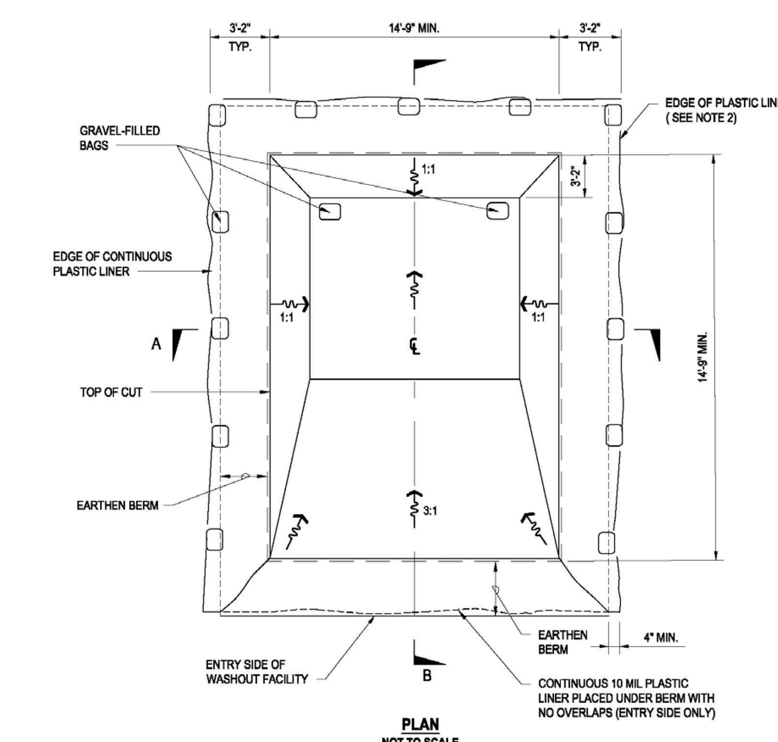
4.2 Remove and dispose of the sediment in a manner satisfactory to the engineer/inspector or in one of the following ways:

A) Remove the unit and sediment from environmentally sensitive areas and waterways. At the approved disposal site, slit the unit; remove the sediment and grade smoothly into the existing topography. Dispose of unit no longer in use at an appropriate recycling or solid waste facility.

B) Bury unit on site; remove any visible fabric and seed.

5.0 **Method of Measurement:**

5.1 The quantity to be paid is for the actual number of Dandy Dewatering Bags ™.

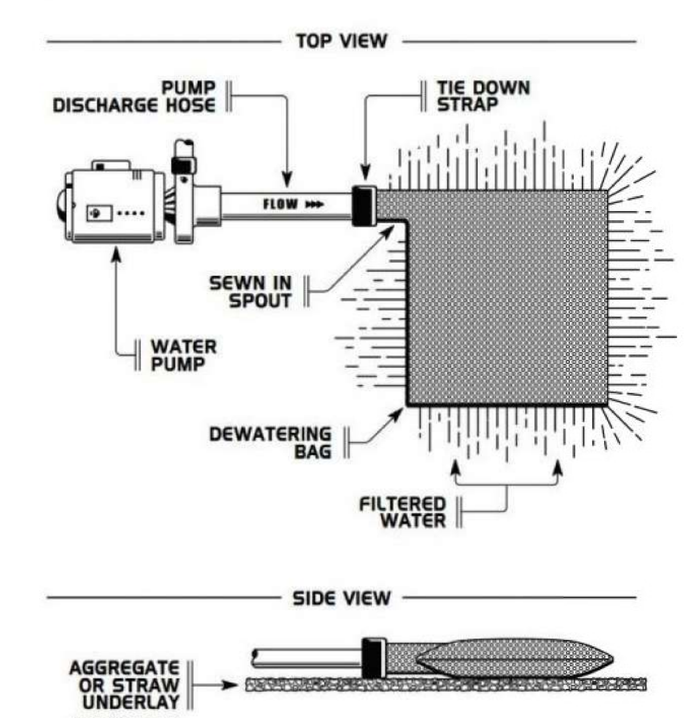


PLAN
NOT TO SCALE

CONCRETE WASHOUT FACILITY (BELOW GRADE)

OR APPROVED EQUAL

DANDY DEWATERING BAG™



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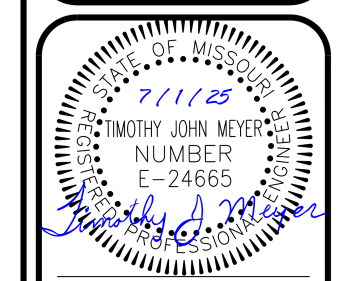


TIMOTHY J MEYER
Professional Engineer
MO E-24665

STRAWBERRY FARMS

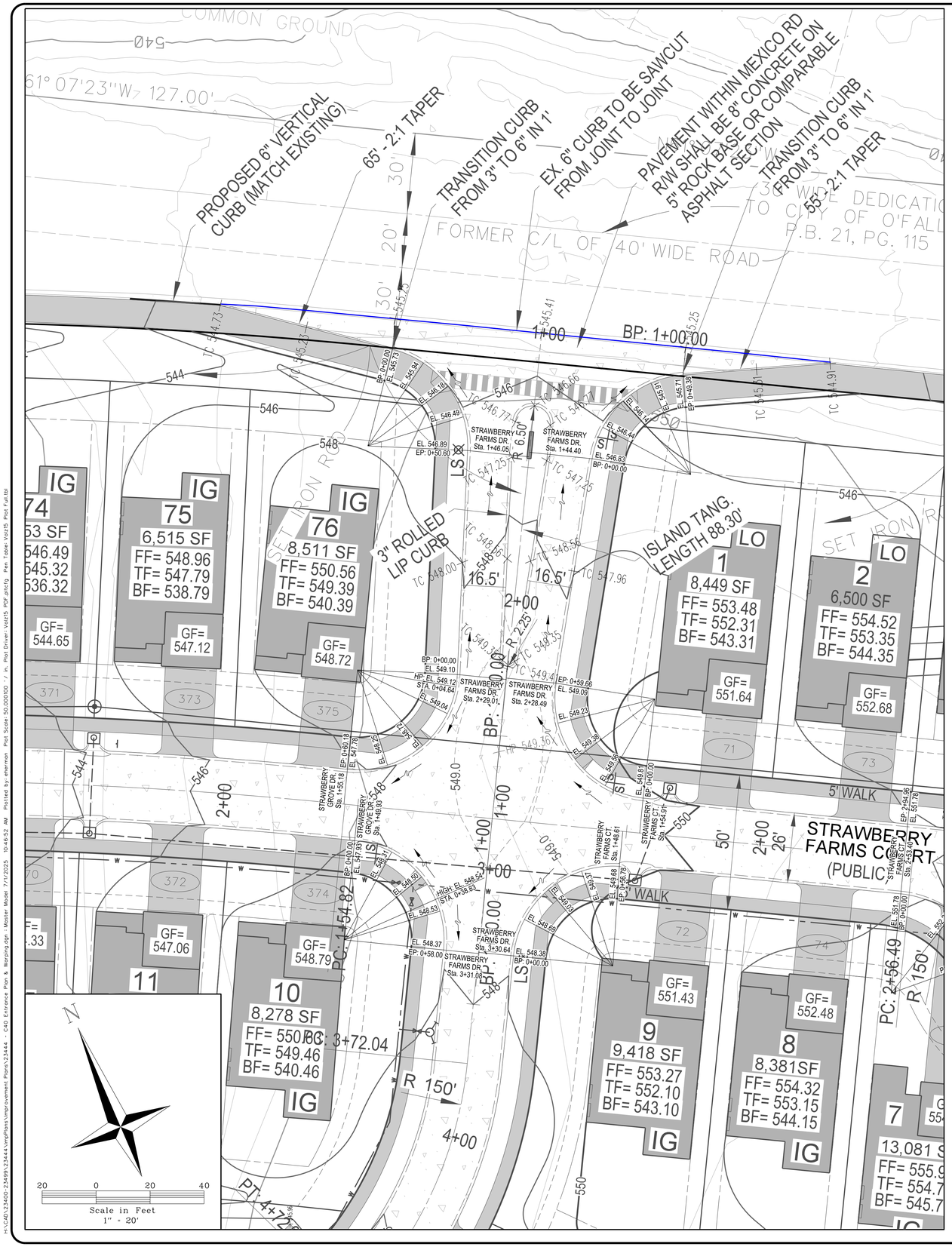
SWPP DETAILS: SHEET 2

PARCEL ID: 2-0119-1766-00-0024.5
CITY OF O'FALLON
PERMIT No: RSP25-000001
PROJECT #23444

8265 MEXICO ROAD,
O'FALLON, MO 63376

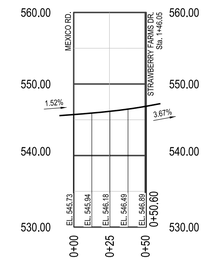
07-01-25

C39



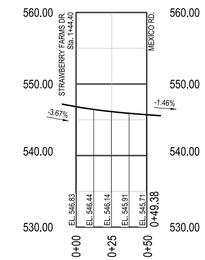
GENERAL NOTES:

1. ALL WARPING ELEVATIONS SHOWN ARE TO TOP OF CURB.
2. ENTRANCE CROSSWALK WHITE PAVEMENT MARKING TO BE HIGH VISIBILITY AND COMPLY WITH AASHTO AND NACTO STANDARDS.



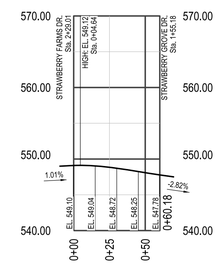
MEXICO RD. & STRAWBERRY FARMS DR.: WEST ROUNDING

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1' = 10'



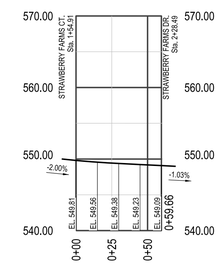
MEXICO RD. & STRAWBERRY FARMS DR.: EAST ROUNDING

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1' = 10'



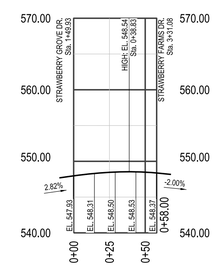
STRAWBERRY FARMS DR. & STRAWBERRY GROVE DR.: WEST ROUNDING

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1' = 10'



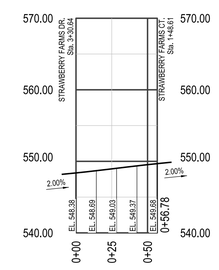
STRAWBERRY FARMS CT. & STRAWBERRY FARMS DR.: EAST ROUNDING

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1' = 10'



STRAWBERRY FARMS DR. & STRAWBERRY GROVE DR.: WEST ROUNDING

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1' = 10'



STRAWBERRY FARMS CT. & STRAWBERRY FARMS DR.: EAST ROUNDING

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1' = 10'

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Authority #203

STATE OF MISSOURI
7/1/25
TIMOTHY JOHN MEYER
NUMBER E-24665
PROFESSIONAL ENGINEER
TIMOTHY J MEYER
Professional Engineer
MO E-24665

STRAWBERRY FARMS

ENTRANCE PLAN & WARPINGS

PARCEL ID: 2-0119-1766-00-0024.5
CITY OF O'FALLON
PERMIT No. RSP25-00001
PROJECT #23444

8265 MEXICO ROAD,
O'FALLON, MO 63376

07-01-25

C40

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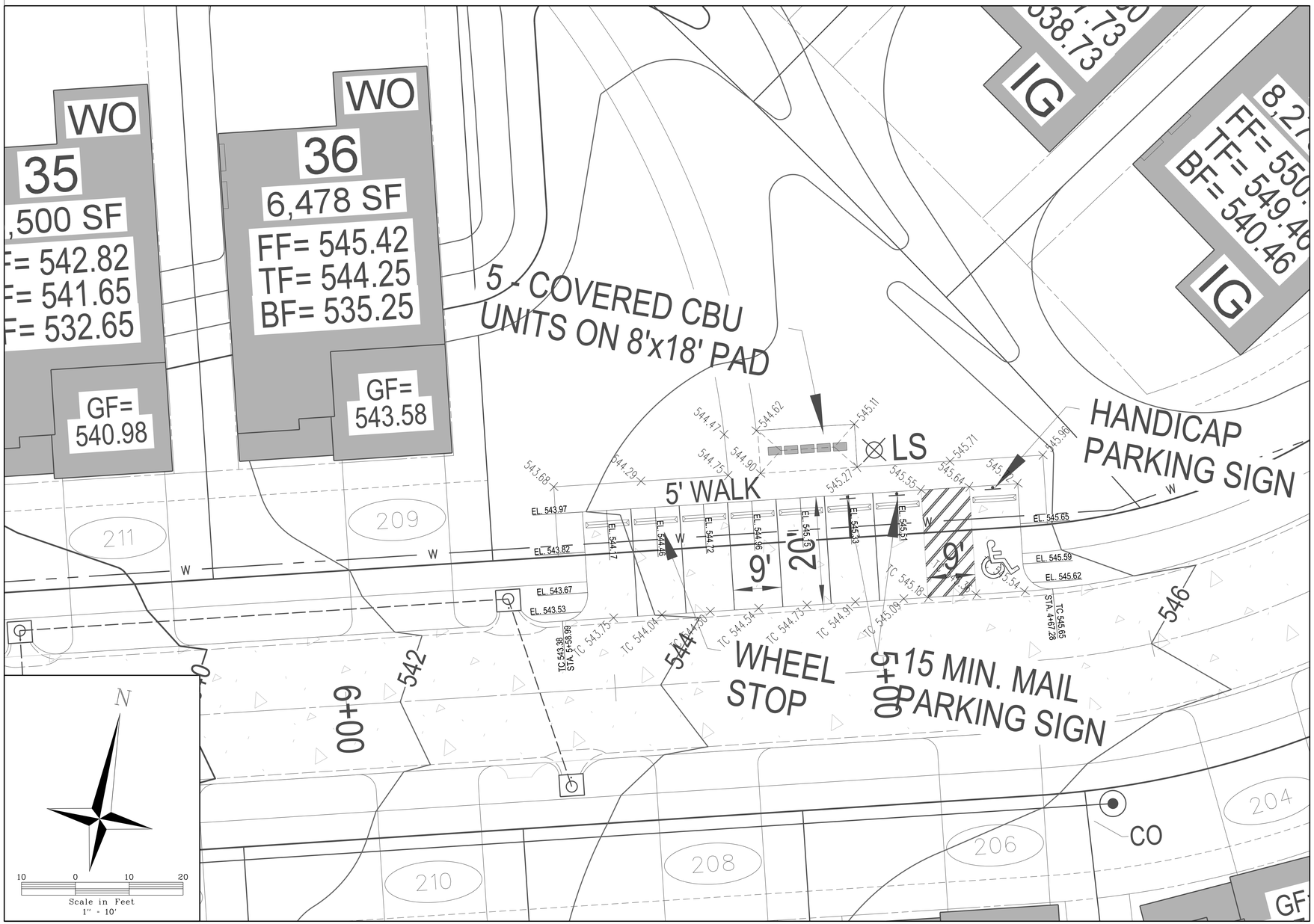
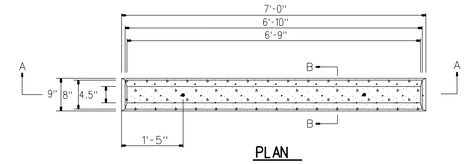
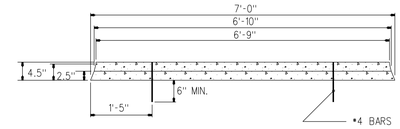
GENERAL NOTES

1. HANDICAP PARKING SPACES AND ACCESS AISLE PAVEMENT MARKINGS TO BE PAINTED BLUE
2. SEE SHEET C33 FOR MAIL KIOSK ROOF COVERING DETAILS.

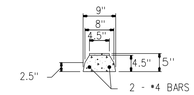




PLAN

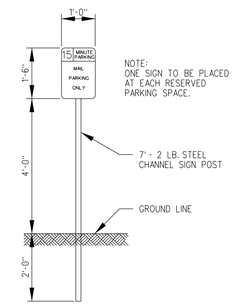


SECTION A-A

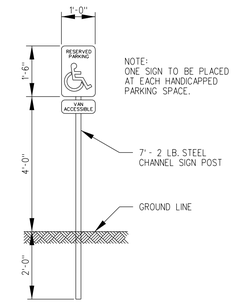


SECTION B-B

CONCRETE WHEEL STOP DETAIL NTS



15 MINUTE MAIL PARKING SIGN NTS



VAN ACCESSIBLE HANICAPPED PARKING SIGN NTS

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7/1/25
TIMOTHY JOHN MEYER
NUMBER
E-24665
PROFESSIONAL ENGINEER
TIMOTHY J MEYER
Professional Engineer
MO E-24665

STRAWBERRY FARMS

PARKING AREA WARPING

8265 MEXICO ROAD,
O'FALLON, MO 63376

PARCEL ID: 2-0119-1768-00-00245
CITY OF O'FALLON
PERMIT No: RSP25-000001
PROJECT #23444

07-01-25

C41

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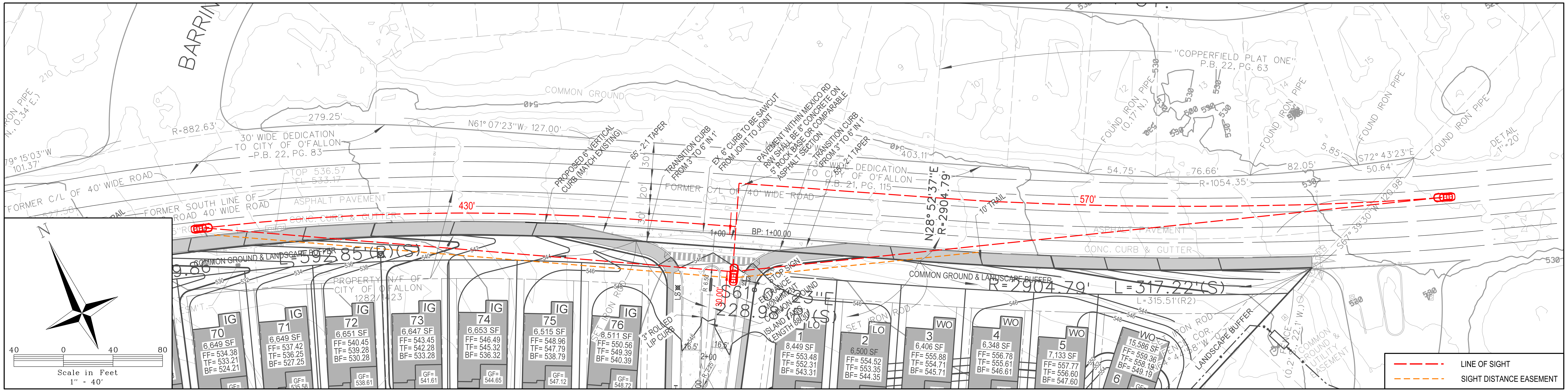
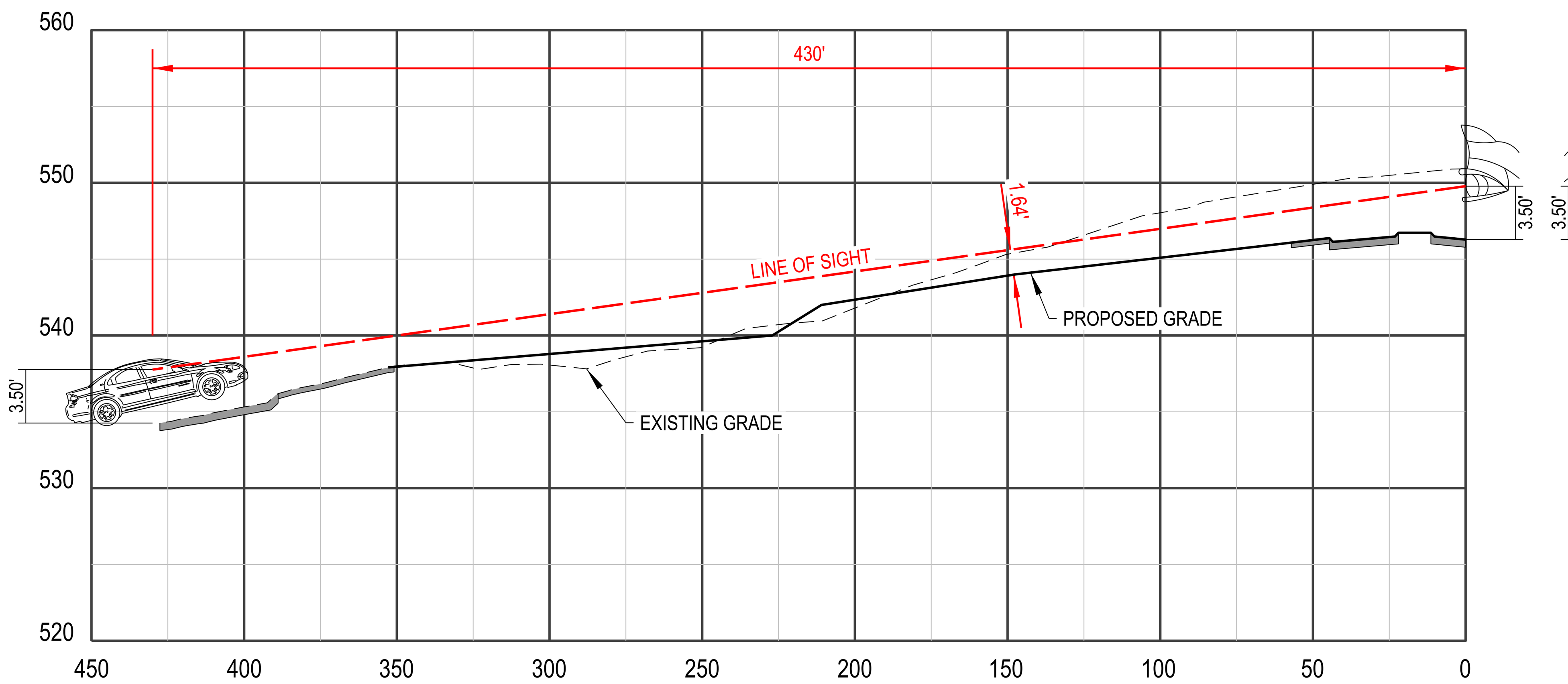
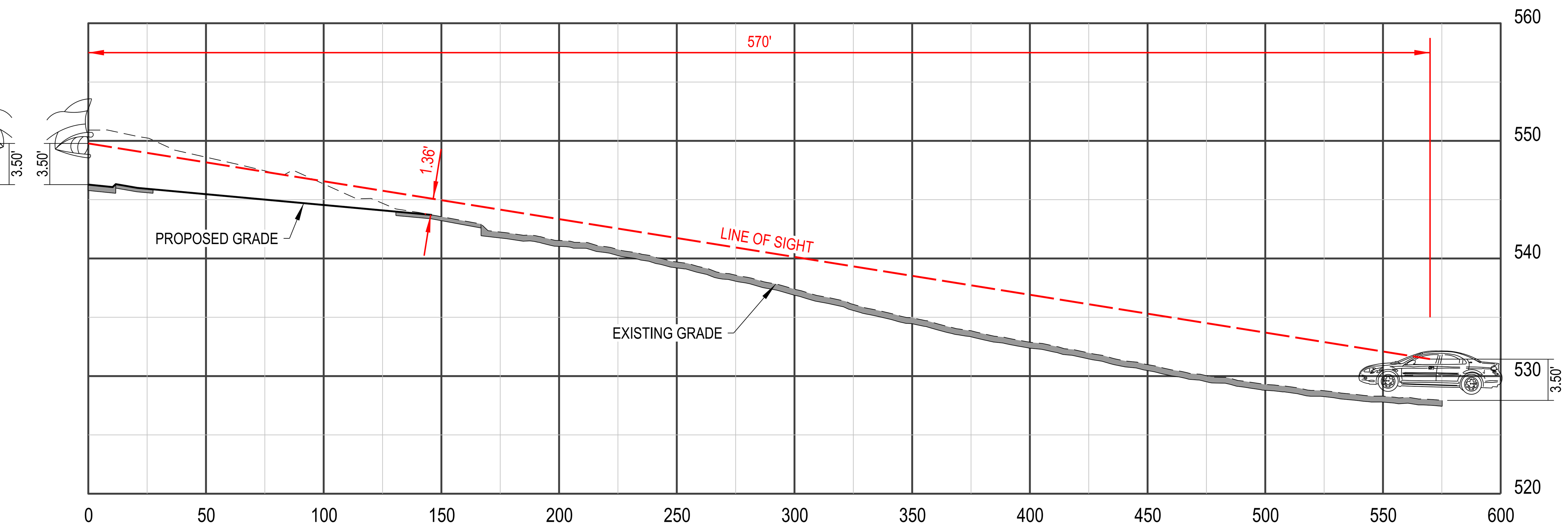




SIGHT DISTANCE - LOOKING LEFT

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'



SIGHT DISTANCE - LOOKING RIGHT

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

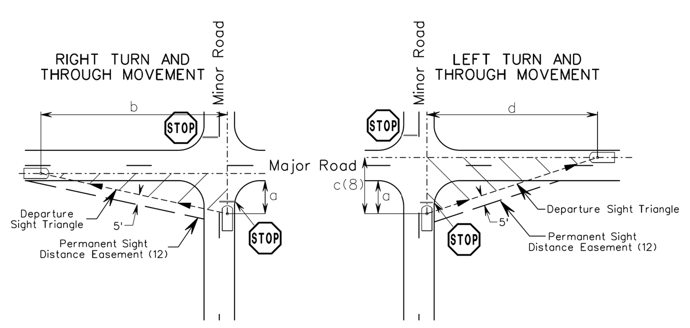


Figure 1 (SEE NOTES 1 & 12):
CASE B - INTERSECTIONS WITH STOP CONTROL ON THE MINOR ROAD VEHICLES EXITING THE MINOR ROAD
CASE D - SIGNALIZED INTERSECTIONS
CASE E - INTERSECTIONS WITH ALL-WAY STOP CONTROL
CASE F - LEFT TURNS FROM THE MAJOR ROAD

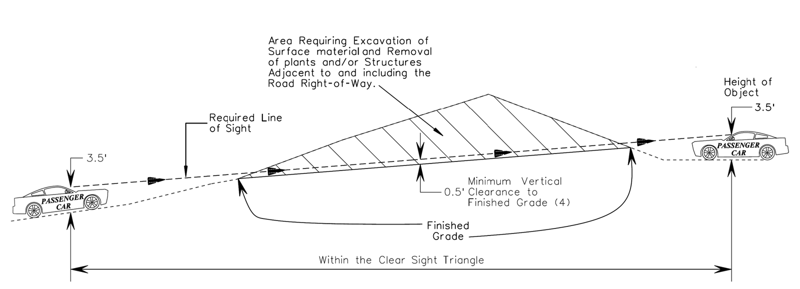


Figure 2:
TYPICAL PROFILE ALONG LINE OF SIGHT (SEE NOTES 1, 2, 3 & 4)

SIGHT DISTANCE FOR VEHICLE EXITING MINOR ROAD ASSOCIATED WITH NEW DEVELOPMENT (SEE NOTES 5, 6 & 13)

MAJOR ROAD DESIGN SPEED (M.P.H.) (7)	LENGTH OF DEPARTURE SIGHT TRIANGLE LEG (6)			CASE F	CROSSING NUMBER OF LANES ADJUSTMENT	SIGHT DISTANCE ADJUSTMENT FOR APPROACH GRADE (11)		
	a(8)	b	d	ISD(9)	W(10)	+4%	+5%	+6%
15	14.5'	145'	170'	125'	15'	15'	20'	25'
20	14.5'	195'	225'	165'	15'	20'	25'	35'
25	14.5'	240'	280'	205'	20'	30'	35'	40'
30	14.5'	290'	335'	245'	25'	35'	40'	50'
35	14.5'	335'	390'	285'	30'	40'	50'	60'
40	14.5'	385'	445'	325'	30'	45'	55'	70'
45	14.5'	430'	500'	365'	35'	50'	65'	80'
50	14.5'	480'	555'	405'	40'	60'	70'	85'
55	14.5'	530'	610'	445'	45'	65'	80'	95'

GENERAL NOTES

1. Do not scale drawings, follow dimensions provided.
2. Height of motorist eye in a vehicle = 3.5 feet. Height of the object = 3.5 feet.
3. The determination of whether an object constitutes a sight obstruction shall consider both the horizontal and vertical alignment of both intersection roadways, as well as the height, position and location of the object.
4. Within the sight triangle, any object at a height above the elevation of the adjacent roadways that would obstruct the driver's view shall be removed or lowered to a minimum of 0.5 feet below the required line of sight. Such objects may include, but are not limited to, berms, buildings, parked vehicles, highway structures, hedges, trees, bushes, unmowed grass, tall crops, walls, fences, and the terrain itself.
5. At intersections with signals or all-way stop control, the first stopped vehicle on one approach should be visible to the drivers of the first stopped vehicles on each of the other approaches. At signalized intersections, left-turning vehicles should have sufficient sight distance to select gaps in oncoming traffic and complete left turns. Intersection sight distance for intersections with signalization is based on the departure sight triangle for left and right turns if the signal is to be placed on two-way flashing operation (i.e. flashing yellow on the major-road approaches and flashing red on the minor-road approaches) under off-peak or nighttime conditions.
6. This table shows the intersection sight distance for a stopped passenger car to turn or pass through an intersection from the minor road where the cross traffic on the major road does not stop. Refer to Figure 1 to determine the appropriate leg "a", "b", "c", or "d" of the departure sight triangle for passenger cars. Sight triangle legs for the different approaches will vary based on design speed. Intersection sight distance for intersections with stop control on the minor road is based on the departure sight triangle for left and right turns exiting the minor road. For right turns and through movements exiting the minor road, departure sight triangle leg lengths "a" and "b" are required. For left turns exiting the minor road, departure sight triangle leg lengths "c" and "d" are required. The lengths of the sight triangle legs are based on approach grades of -3% to +3%. Adjustment factor required for approach grades which exceed 3%.
7. On existing roadways the design speed shall be the 85th percentile speed of motorists on the roadway as established by radar studies, or 5 m.p.h. greater than the posted speed limit, whichever is greater. On new roadways the design speed shall be 5 m.p.h. greater than the anticipated posted speed limit.
8. Departure sight triangle leg length "a" is measured from the edge of shoulder to the passenger car driver and is assumed to be 14.5 feet minimum, 18 feet desireable. Departure sight triangle leg length "c" is measured from the center of the farthestmost crossed lane to the passenger car driver and includes all shoulders, medians and lanes crossed plus departure sight triangle leg length "a".
9. For left turns from the major road, sufficient sight distance should be provided to accommodate the maneuver. The Intersection Sight Distance (ISD) is dependent on the major road design speed. The ISD provided assumes making a left turn across one opposing lane with no median. Add W to ISD for each additional lane or median crossed.
10. The departure triangle leg "d" shown in the table is based on a passenger car crossing one lane of traffic. For crossing multiple lanes, add "W" to the length "d" for the corresponding design speed for each additional lane and/or median crossed.
11. The adjustment for departure triangle leg length "b" and "d" based on approach grade shall be used when the minor road approach grade exceeds 3%. Round the minor road approach grade up to the next whole percent and add the length to the departure sight triangle leg length for the appropriate design speed. DO NOT INTERPOLATE THE TABLE.
12. Permanent sight distance easements shall be provided at a minimum of 5 feet beyond the sight triangle measured perpendicular from the sight line for all four legs of the intersection.
13. This methodology is based on AASHTO, A Policy on Geometric Design of Highways and Streets, 2018, 7th Edition. For intersections where there is anticipated to be a large volume of single unit trucks or combination trucks, or when two roadways intersect at an angle less than 60 degrees, see "AASHTO, A Policy on the Geometric Design of Highways and Streets, 2018, 7th Edition" for adjustments to the departure sight triangle leg lengths.

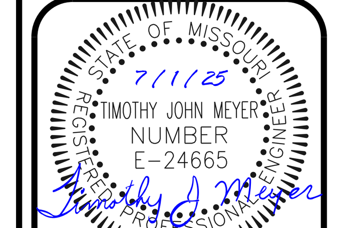
ISSUE DATE 03/09/2020
REVISIONS
THIS IS NOT A CERTIFIED DOCUMENT
Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
1050 NORTH LINDBERGH BLVD. ST. LOUIS, MISSOURI 63132
DESIGN CRITERIA MANUAL
INTERSECTION SIGHT DISTANCE PASSENGER CARS
EFFECTIVE 05/01/2020
SHEET 2 OF 3
DRAWING 5.2

MEXICO ROAD
POSTED SPEED LIMIT

MEXICO ROAD
DESIGN SPEED LIMIT

McKELVEY HOMES
Building A Tradition Of Excellence Since 1898
424 S. WOODS MILL RD., SUITE 110
TOWN & COUNTRY, MISSOURI 63017

VOLZ Incorporated
10849 Indian Head Ind'l. Blvd.
St. Louis, Missouri 63132
314.426.6212 Main
314.890.1250 Fax
www.volzinc.com
Authority #203



TIMOTHY J MEYER
Professional Engineer
MO E-24665

STRAWBERRY FARMS

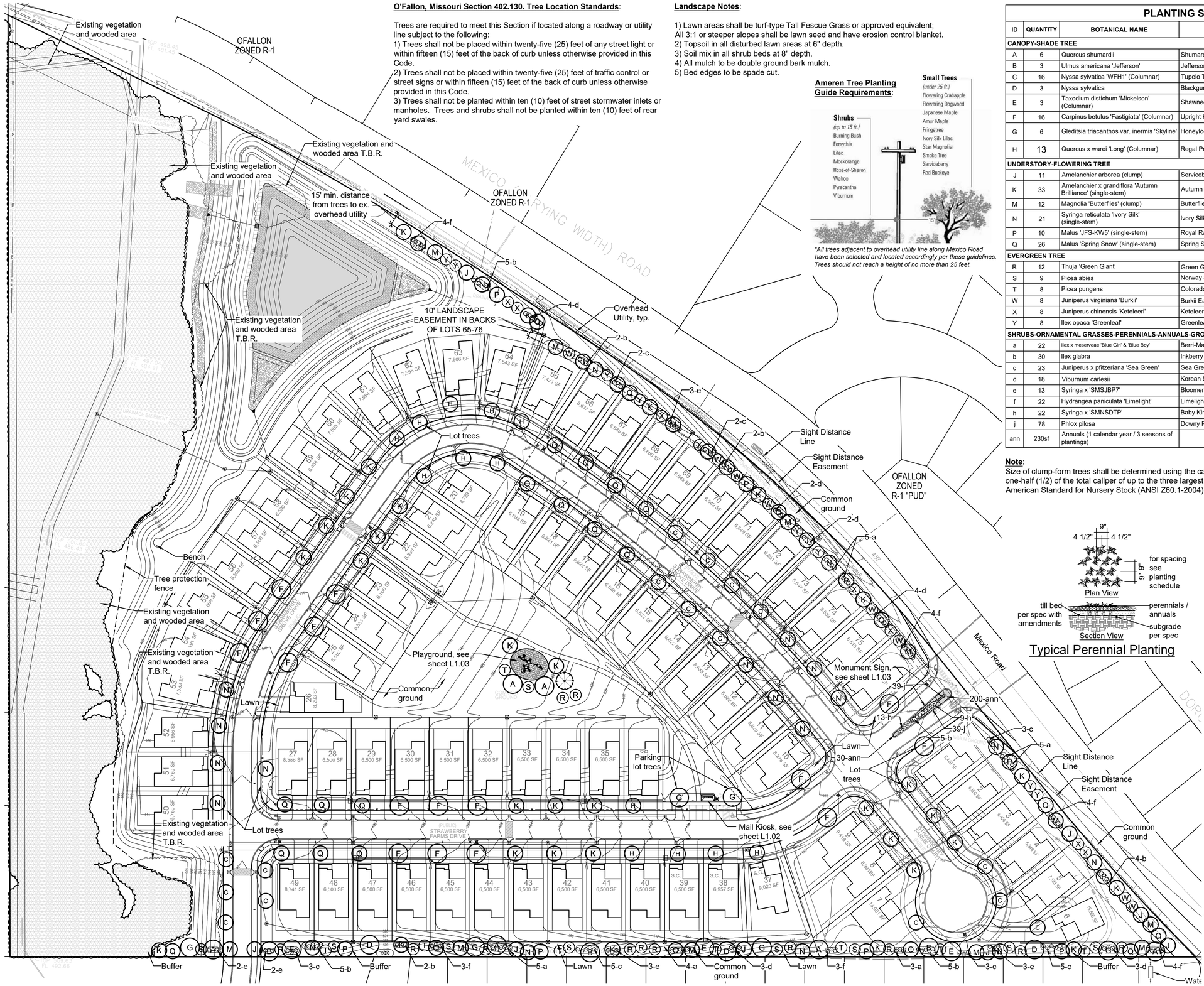
MEXICO ROAD
LINE OF SIGHT PLAN & PROFILE

8265 MEXICO ROAD,
O'FALLON, MO 63376

PARCEL ID: 2-0119-1766-00-0024.5
CITY OF O'FALLON
PERMIT No: RSP25-000001
PROJECT #23444

07-01-25
C42

H:\CAD\23400-23499\23444\ImpPlans\Improvement Plans\23444 - C42 Line of Sight Profile.dgn : Master Model 7/1/2025 10:46:56 AM Plotted by: eherman Plot Scale: 50.000100 ' / in. Plot Driver: Volz15 PDF.pltcfg Pen Table: Volz15 Plot Full.tbl



Landscape Plan

SCALE 1"=60'

0 60 120 240

O'Fallon, Missouri Section 402.130. Tree Location Standards:

Trees are required to meet this Section if located along a roadway or utility line subject to the following:
1) Trees shall not be placed within twenty-five (25) feet of any street light or within fifteen (15) feet of the back of curb unless otherwise provided in this Code.
2) Trees shall not be placed within twenty-five (25) feet of traffic control or street signs or within fifteen (15) feet of the back of curb unless otherwise provided in this Code.
3) Trees shall not be planted within ten (10) feet of street stormwater inlets or manholes. Trees and shrubs shall not be planted within ten (10) feet of rear yard swales.

Landscape Notes:

1) Lawn areas shall be turf-type Tall Fescue Grass or approved equivalent; All 3:1 or steeper slopes shall be lawn seed and have erosion control blanket.
2) Topsoil in all disturbed lawn areas at 6" depth.
3) Soil mix in all shrub beds at 8" depth.
4) All mulch to be double ground bark mulch.
5) Bed edges to be spade cut.

Ameren Tree Planting Guide Requirements:

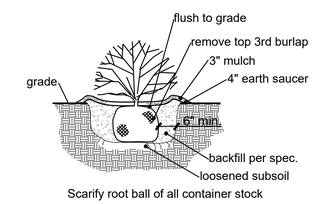
*All trees adjacent to overhead utility line along Mexico Road have been selected and located accordingly per these guidelines. Trees should not reach a height of no more than 25 feet.

PLANTING SCHEDULE

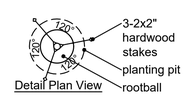
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	MATURE HEIGHT
CANOPY-SHADE TREE						
A	6	Quercus shumardii	Shumard Oak	2.5" caliper	B & B	40-60'
B	3	Ulmus americana 'Jefferson'	Jefferson American Elm	2.5" caliper	B & B	40-50'
C	16	Nyssa sylvatica 'WFH1' (Columnar)	Tupelo Tower	2.5" caliper	B & B	30-50'
D	3	Nyssa sylvatica	Blackgum	2.5" caliper	B & B	30-50'
E	3	Taxodium distichum 'Mickelson' (Columnar)	Shawnee Brave Baldcypress	2.5" caliper	B & B	50-75'
F	16	Carpinus betulus 'Fastigiata' (Columnar)	Upright Hornbeam	2.5" caliper	B & B	30-40'
G	6	Gleditsia triacanthos var. inermis 'Skyline'	Honeylocust (thornless)	2.5" caliper	B & B	35-45'
H	13	Quercus x warei 'Long' (Columnar)	Regal Prince Oak	2.5" caliper	B & B	30-50'
UNDERSTORY-FLOWERING TREE						
J	11	Amelanchier arborea (clump)	Serviceberry	1.5" caliper	B & B	15-25'
K	33	Amelanchier x grandiflora 'Autumn Brilliance' (single-stem)	Autumn Brilliance Serviceberry	1.5" caliper	B & B	15-25'
M	12	Magnolia 'Butterflies' (clump)	Butterflies Magnolia	1.5" caliper	B & B	15-20'
N	21	Syringa reticulata 'Ivory Silk' (single-stem)	Ivory Silk Japanese Tree Lilac	1.5" caliper	B & B	20-25'
P	10	Malus 'JFS-KW5' (single-stem)	Royal Raindrops Crabapple	1.5" caliper	B & B	15-20'
Q	26	Malus 'Spring Snow' (single-stem)	Spring Snow Flowering Crabapple	1.5" caliper	B & B	20-25'
EVERGREEN TREE						
R	12	Thuja 'Green Giant'	Green Giant Arborvitae	6' tall	B & B	40-60'
S	9	Picea abies	Norway Spruce	6' tall	B & B	40-60'
T	8	Picea pungens	Colorado Blue Spruce	6' tall	B & B	30-60'
W	8	Juniperus virginiana 'Burkii'	Burkii Eastern Red Cedar	6' tall	B & B	10-20'
X	8	Juniperus chinensis 'Keteleeri'	Keteleeri Chinese Juniper	6' tall	B & B	15-20'
Y	8	Ilex opaca 'Greenleaf'	Greenleaf American Holly	6' tall	B & B	20-25'
SHRUBS-ORNAMENTAL GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER						
a	22	Ilex x meserveae 'Blue Girl' & 'Blue Boy'	Berri-Magic Kids Holly Combination	18"	72" o.c.	
b	30	Ilex glabra	Inkberry	18"	72" o.c.	
c	23	Juniperus x pfitzeriana 'Sea Green'	Sea Green Juniper	18"	72" o.c.	
d	18	Viburnum carlesii	Korean Spice Viburnum	18"	72" o.c.	
e	13	Syringa x 'SMSJBP7'	Bloomerang Dark Purple Lilac	18"	72" o.c.	
f	22	Hydrangea paniculata 'Limelight'	Limelight Panicle Hydrangea	18"	72" o.c.	
h	22	Syringa x 'SMNSDTP'	Baby Kim Lilac	18"	36" o.c.	
j	78	Phlox pilosa	Downy Phlox	2" cell plug	18" o.c.	
ann	230sf	Annuals (1 calendar year / 3 seasons of plantings)		2" cell plug	VARIES	

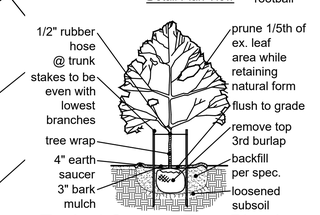
Note:
Size of clump-form trees shall be determined using the caliper equal to one-half (1/2) of the total caliper of up to the three largest required trunks (per American Standard for Nursery Stock (ANSI Z60.1-2004), section 1.3.2.4.2.

Typical Perennial Planting

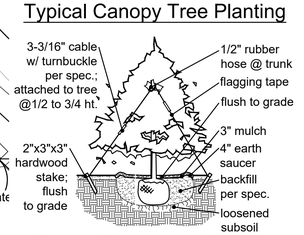


Typical Shrub Planting





Typical Canopy Tree Planting



Typical Evergreen Planting

STATE OF MISSOURI
JERALD SAUNDERS
NUMBER LA-7
LANDSCAPE ARCHITECT
5/19/25

Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

STRAWBERRY FARMS

8265 MEXICO ROAD
O'FALLON, MISSOURI

Revisions:

Date	Description	No.
9/18/24	Plan Revisions	1
11/1/24	Final Plan	2
11/19/24	City Comments	3
4/11/25	Plan Revisions	4
4/29/25	City Comments	5
5/19/25	City Comments	6

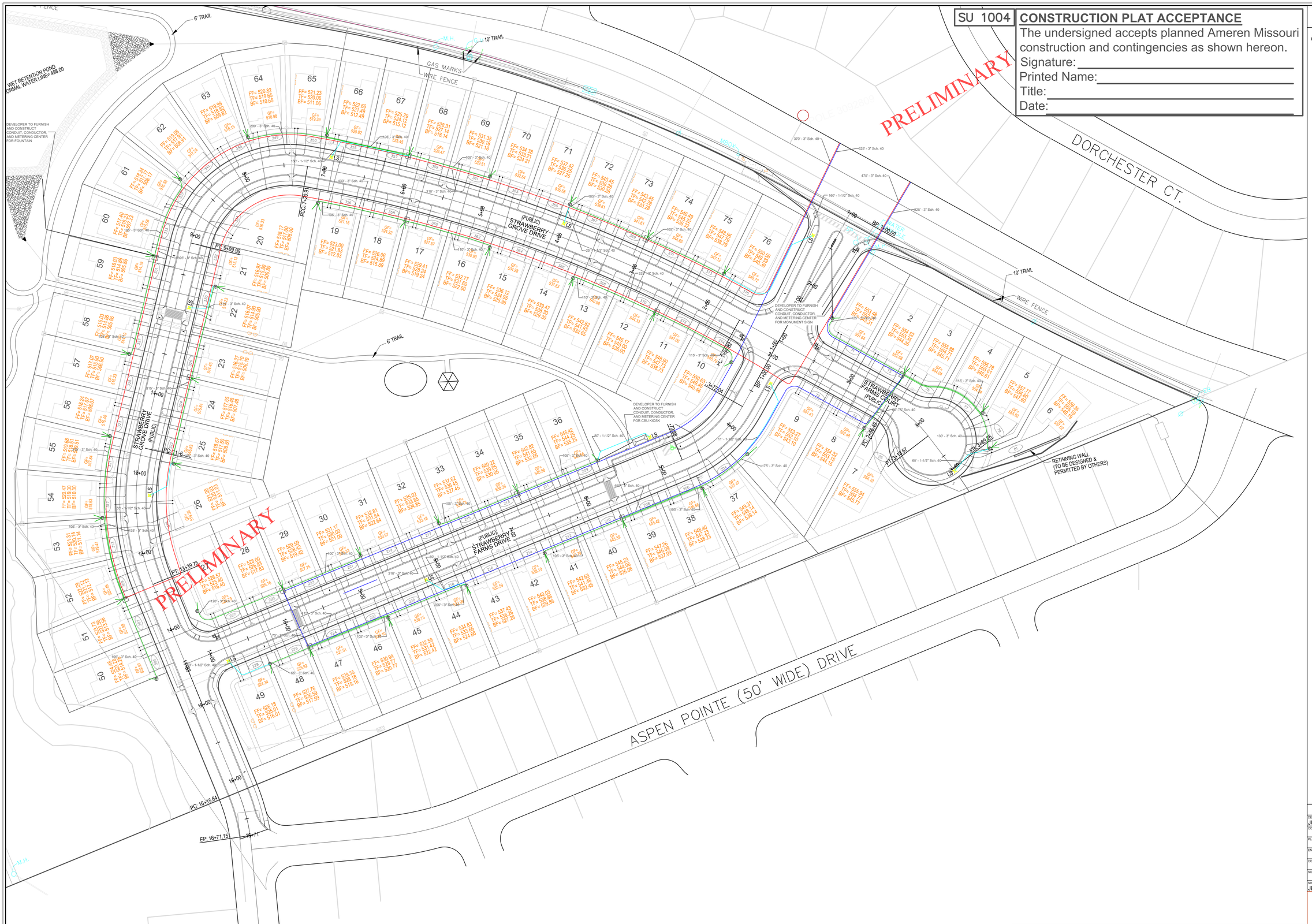
Drawn: LH
Checked: RS

LOOMIS ASSOCIATES
landscape architects + planners
750 spirit 40 park drive, chesterfield, missouri 63005
t. 636-519-8668
www.loomis-associates.com
Loomis Associates Inc.
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: LANDSCAPE PLAN

Sheet No: L1.01

Date: 8/30/24
Job #: 971.010



SU 1004	**CONSTRUCTION PLAT ACCEPTANCE**

The undersigned accepts planned Ameren Missouri construction and contingencies as shown hereon.

Signature: _____

Printed Name: _____

Title: _____

Date: _____

KB73913 - STRAWBERRY FARMS CONDUIT LAYOUT

(1)

GENERAL NOTES

DEVELOPER TO INSTALL 3" ELECTRICAL CONDUIT FROM EXISTING AMEREN FACILITIES TO PROPOSED TRANSFORMER PAD SITES.
DEVELOPER TO INSTALL 3" ELECTRICAL CONDUIT BETWEEN PROPOSED TRANSFORMER PAD SITES. CONDUIT PROVIDING CONNECTION BETWEEN PRIMARY COMPARTMENT OF TRANSFORMERS SHALL HAVE 36" DEPTH OF COVER AND SHALL BE CONNECTED WITH 36" RADIUS SWEEPS.

DEVELOPER TO INSTALL 3" ELECTRICAL CONDUIT FROM PROPOSED TRANSFORMER PAD SITES TO PROPOSED SECONDARY PEDESTALS. CONDUIT PROVIDING CONNECTION TO SECONDARY PEDESTALS SHALL HAVE AT LEAST 24" DEPTH OF COVER AND SHALL BE CONNECTED WITH 24" (OR GREATER) RADIUS SWEEPS.

DEVELOPER TO INSTALL BELL END COUPLINGS ON ALL CONDUIT STUB UPS IN PRIMARY AND SECONDARY COMPARTMENTS OF TRANSFORMERS. BELL END OF CONDUIT SWEEP DOES NOT SATISFY THIS REQUIREMENT.

DEVELOPER TO PREPARE PROPOSED TRANSFORMER PAD SITES TO AMEREN STANDARDS, TO INCLUDE BACKFILL WITH COMPACTED ROCK, LEVEL AND TO GRADE.

DEVELOPER TO INSTALL SECONDARY ELECTRICAL PEDESTALS TO AMEREN STANDARDS.

DEVELOPER TO INSTALL 1-1/2" CONDUIT FROM DESIGNATED SOURCE(S) TO BASES OF DUSK TO DAWN LIGHTS.

DEVELOPER TO FURNISH AND INSTALL CONDUIT FOR ELECTRICAL SERVICES TO HOMES.

DEVELOPER TO INSTALL MULE TAPE IN ALL CONDUITS.

AMEREN NOT LIABLE FOR SETTLING, SHIFTING, OTHER MOVEMENTS OF FACILITIES DUE TO BACKFILLING COMPLETED BY DEVELOPER.

CONTACT INFORMATION

DESIGNER	JUSTIN GUILFOYLE	636-357-6135
CONST. SUPERVISOR		
PLANNER		
ENGINEER		
CONSULTING DESIGN COMPANY		
SUPPORT ENGINEER		
SITE CONTACT	JEFF THOELE	636-219-3247

ACTIVE CONSTRUCTION SITE

BODY MECHANICS • EYES ON PATH/WORK
LINE OF FIRE • PRE-JOB INSPECTION
PROPER TOOL/EQUIPMENT

PROJECT NAME / CUSTOMER NAME: STRAWBERRY FARMS SUBDIVISION		PROJECT TYPE: CUSTOMER REQUEST	MAXIMO WORK ORDER: KB73913
LOCATION: 8265 MEXICO ROAD	PROPERTY VOLUME / PAGE: 17 / 656 / 044	PROJECT VOLTAGE: 12 kV	FINANCIAL WORK ORDER: 689052
MUNICIPALITY: O'FALLON	DESIGNER: JMG	OPERATING CENTER: WENTZVILLE	SHEET #:
			DATE ISSUED: 6/25/2025

NOT TO SCALE

Ameren MISSOURI